# Appendix L1. Estimated Trip Generation



C-062443

# Appendix L1. Estimated Trip Generation

## TRIP GENERATION ON THE DW PROJECT ISLANDS

The tables in this appendix show trip generation on Bacon Island, Webb Tract, Bouldin Island, and Holland Tract for the Delta Wetlands (DW) project alternatives. Trip generation under existing conditions, shown in Table L1-1, is based on current agricultural and recreational activities on the project islands. Trip generation estimates for Alternatives 1, 2, and 3 are shown in Table L1-2. Trip generation for the No-Project Alternative, shown in Table L1-3, is based on the assumption that intensified agriculture would be practiced on the DW islands, with some increase in recreational use over existing conditions.

Trip generation estimates for construction under the DW project alternatives were provided by the project proponent, and additional information was provided by a local construction contractor. Trip generation estimates for agricultural and maintenance activities associated with each alternative were provided by the project proponent. Recreational trip generation estimates were calculated as described below.

Recreational trip generation estimates for existing conditions were calculated based on the number of hunter use-days on the DW project islands. Table 3J-2 in Chapter 3J, "Recreation and Visual Resources", shows the annual estimated number of hunter use days on the DW project islands during the 1987-1988 hunting season (one hunter use-day represents participation by one individual in hunting activities for any portion of a 24-hour period). As a worst-case analysis, one vehicle round trip was assumed to be associated with each hunter use-day. The total number of vehicle trips was then divided by the number of actual days hunting was allowed that year to calculate an average daily number of recreation-related vehicle trips occurring per day during that hunting season. The number of actual days hunting was allowed during the 1987-1988 hunting season was assumed to be the same as that shown for the No-Project Alternative in Table 3J-16.

Estimates of recreational trip generation were calculated for the various alternatives in the same manner as for existing conditions except that the estimates of annual maximum hunter use-days shown in Table 3J-11 in Chapter 3J, "Recreation and Visual Resources", were used as the basic numbers of hunter use-days for each alternative. These numbers represent the maximum amount of hunting that would occur during the approximately 5- to 15-year period following project start-up. After this initial period, it is expected that hunting activity on the DW project islands would decrease. The maximum numbers were used for a worst-case analysis. Additionally, the number of days that hunting would be allowed in future years under each alternative was taken from Tables 3J-3, 3J-4, 3J-6, 3J-12, 3J-13, 3J-14, 3J-15 and 3J-16. For more information on the recreation analysis, see Chapter 3J, "Recreation and Visual Resources".

## CITATIONS


Forkel, Dave. Project manager. Delta Wetlands, Lafayette, CA. December 16, 1993 - facsimile transmittal.

Stewart, Harry. General manager. Dutra Construction, Rio Vista, CA. December 21, 1993 - telephone conversation.

Table L1-1. Trip Generation under Existing Conditions
(Trips per Day)

| | Bacon Island | Webb Tract | Bouldin Island | Holland Tract |
|---|---|---|---|---|
| Number of vehicle trips to recreation areas | 2 | 14 | 5 | 2 |
| Number of harvest vehicle trips | 24 | 1 | 5 | 1 |
| Number of nonharvest agricultural vehicle trips | 18 | 25 | 22 | 9 |
| Total | 44 | 40 | 32 | 12 |
| Number of agricultural boat trips | 0 | 4 | 0 | 0 |

Source: Forkel pers. comm.



C-062446

Table L1-2. Trip Generation under Alternatives 1, 2, and 3 (Trips per Day)

| | Bacon Island | | Webb Tract | | Bouldin Island | | Holland Tract | |
|---|---|---|---|---|---|---|---|---|
| | Alternative 1 or 2 | Alternative 3 | Alternative 1 or 2 | Alternative 3 | Alternative 1 or 2 | Alternative 3 | Alternative 1 or 2 | Alternative 3 |
| **Construction** | | | | | | | | |
| Number of worker vehicle trips to islands | 67 | 67 | 53 | 53 | 30 | 151 | 14 | 103 |
| Number of worker vehicle trips to boats[a] | 3 | 3 | 31 | 31 | 1 | 7 | 1 | 4 |
| Number of material delivery truck trips to island | 2 | 2 | 2 | 2 | 0 | 1 | 0 | 1 |
| Total | 72 | 72 | 86 | 86 | 31 | 159 | 15 | 108 |
| Number of barge trips to islands | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Number of worker boat trips to islands | 3 | 3 | 12 | 12 | 2 | 12 | 2 | 16 |
| Total | 4 | 4 | 13 | 13 | 3 | 13 | 3 | 17 |
| **Operation** | | | | | | | | |
| Number of vehicles traveling to recreation areas | 521 | 521 | 521 | 521 | 474 | 474 | 284 | 379 |
| Number of harvest vehicle trips | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Number of nonharvest agricultural vehicle trips | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| Number of maintenance and service vehicle trips | 33 | 33 | 25 | 25 | 14 | 27 | 15 | 41 |
| Number of maintenance vehicle trips to boats [a] | 2 | 2 | 8 | 8 | 1 | 2 | 1 | 2 |
| Total | 556 | 556 | 555 | 555 | 489 | 503 | 306 | 422 |
| Number of recreational boat trips | 323 | 323 | 323 | 323 | 294 | 294 | 176 | 235 |
| Number of agricultural boat trips | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Number of maintenance boat trips to islands | 1 | 1 | 3 | 3 | 1 | 1 | 1 | 2 |
| Total | 324 | 324 | 326 | 326 | 295 | 295 | 177 | 237 |

[a] The numbers of worker vehicle trips to boats and maintenance vehicle trips to boats represent the number of vehicle trips made to boats (other than the ferry) that carry workers to islands.

Sources: Construction trip generation: Stewart and Forkel pers. comms.; other trip generation: Forkel pers. comm.

Table L1-3. Trip Generation under the No-Project Alternative (Trips per Day)

| | Bacon Island | Webb Tract | Bouldin Island | Holland Tract |
|---|---|---|---|---|
| Number of vehicle trips to recreation areas | 121 | 120 | 131 | 92 |
| Number of harvest vehicle trips | 62 | 4 | 13 | 3 |
| Number of nonharvest agricultural vehicle trips | 46 | 64 | 56 | 23 |
| Total | 228 | 188 | 200 | 118 |
| Number of agricultural boat trips | 0 | 10 | 0 | 0 |

Source: Forkel pers. comm.